**SQL QUERIES EXAMPLE**

SQL is Structured Query Language, which is a computer language for storing, manipulating and retrieving data stored in a relational database.

**Creating Database**

create database db1;

**Use Database**

use db1;

**creating Employee Table**

create table Employee (

Emp\_ID int,

Emp\_Name varchar(45),

Emp\_Age int,

Emp\_Dept varchar(45),

Dept\_ID int,

Emp\_Location varchar(45)

);

**Inserting Values to Employee Table**

insert into Employee(Emp\_ID,Emp\_Name,Emp\_Age,Emp\_Dept,Dept\_ID,Emp\_Location) values('101','jomin','22','IT','111','Bangalore');

insert into Employee(Emp\_ID,Emp\_Name,Emp\_Age,Emp\_Dept,Dept\_ID,Emp\_Location) values('102','kiran','23','Sales','111','Chennai');

insert into Employee(Emp\_ID,Emp\_Name,Emp\_Age,Emp\_Dept,Dept\_ID,Emp\_Location) values('103','swetha','30','HR','111','Hyderabad');

**creating Department Table**

create table Department (

Dept\_ID int,

Dept\_Name varchar(45),

Dept\_Location varchar(45),

Project\_ID int );

**Inserting values to Department Table**

insert into Department(Dept\_ID,Dept\_Name,Dept\_Location,Project\_ID) values('111','HR','Bangalore','11');

insert into Department(Dept\_ID,Dept\_Name,Dept\_Location,Project\_ID) values('112','IT','Chennai','12');

insert into Department(Dept\_ID,Dept\_Name,Dept\_Location,Project\_ID) values('113','Sales','Pune','15');

**creating Project Table**

create table Project (

ID\_Project int,

Project\_Name varchar(45),

Project\_Location varchar(45),

Project\_Strength int );

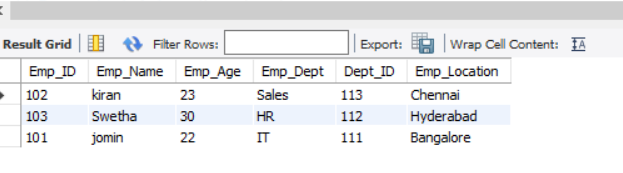
**Inserting values to Project Table**

insert into Project (ID\_Project,Project\_Name,Project\_Location,Project\_Strength) values('11','Health\_care','Bangalore','5');

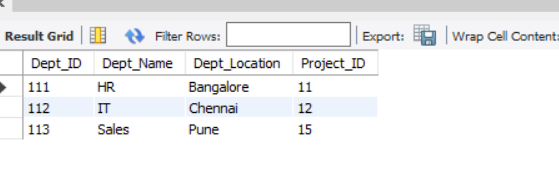
insert into Project (ID\_Project,Project\_Name,Project\_Location,Project\_Strength) values('12','Epay','Chennai','6');

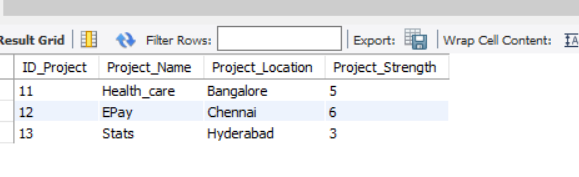
insert into Project (ID\_Project,Project\_Name,Project\_Location,Project\_Strength) values('13','Stats','Hyderabad','3');

**select \* from Employee;**

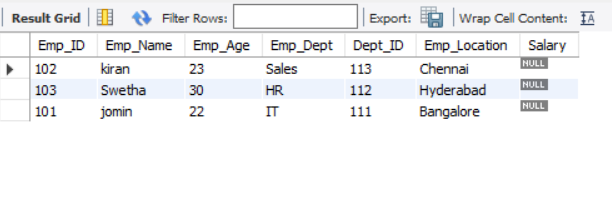


**select \* from Department;**

****

**select \* from Project; **

**alter table Employee add Salary double;**

****UPDATE Employee

SET Salary= '20000'

WHERE Emp\_ID = 101;

UPDATE Employee

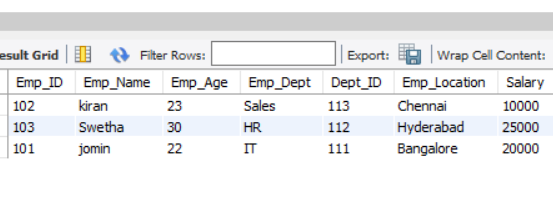
SET Salary= '10000'

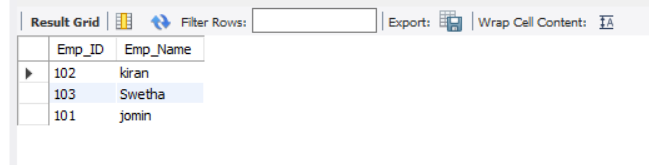
WHERE Emp\_ID = 102;

UPDATE Employee

SET Salary= '25000'

WHERE Emp\_ID = 103;

 **select Emp\_ID,Emp\_Name from Employee where Emp\_Age>21;**



SELECT Emp\_Name,Emp\_Age

FROM Employee

ORDER BY Emp\_Age desc;



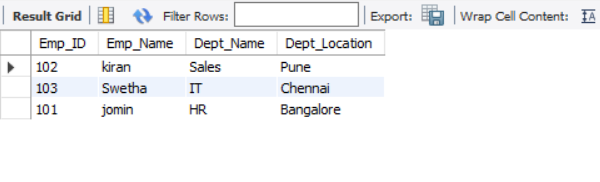
Inner Join

Select Employee.Emp\_ID,Employee.Emp\_Name,Department.Dept\_Name,Department.Dept\_Location

from Employee

inner join Department

on Employee.Dept\_ID=Department.Dept\_ID;



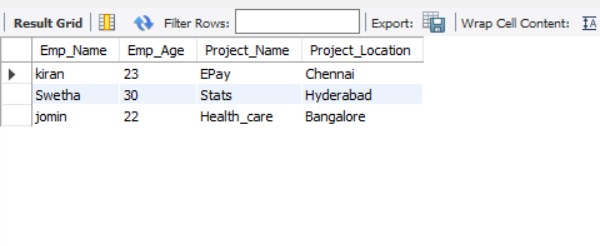
Left Join

select Employee.Emp\_Name,Employee.Emp\_Age,Project.Project\_Name,Project.Project\_Location

from Employee

left join Project

on Employee.Emp\_Location=Project.Project\_Location;



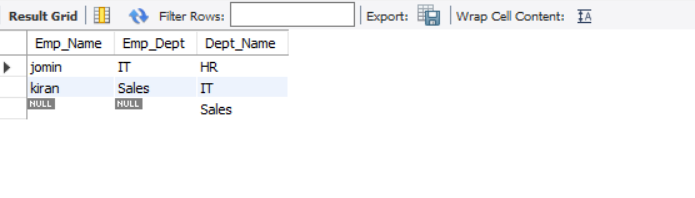
Right Join

select Employee.Emp\_Name,Employee.Emp\_Dept,Department.Dept\_Name

from Employee

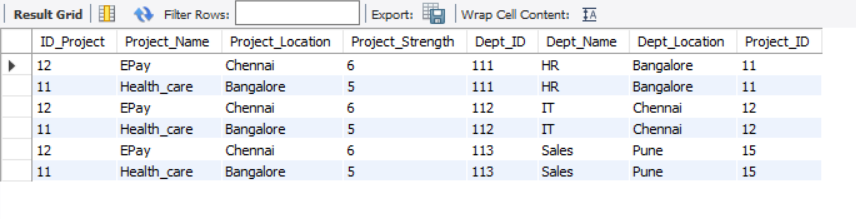
right join Department

on Employee.Emp\_Location=Department.Dept\_Location;



Cross Join

select \* from Project cross join Department where Project\_Strength>3;



**Store Procedures**

CREATE DEFINER=`root`@`localhost` PROCEDURE `Update Salary`(in New\_Salary double, in New\_ID int)

BEGIN

update Employee set Salary=New\_Salary where Emp\_ID=New\_ID;

END

call db1.`Update Salary`(45000, 103);

